FEDERAL BUREAU OF INVESTIGATION

Preceder	nce: ROUTINE	Date:	07/26/2004
To: Sar	n Francisco		
From: S	San Francisco Squad 14G-Cy <u>bersquad, San</u> Contact: SA	Jose Resident 2	Agency]
Approved	l By:		
Drafted	By: wl 22		
Case ID	#: 288A-SF-NEW (Pending)		
Title:	UNSUB(S), AKA MYDOOM VIRUS; GOOGLE - VICTIM; YAHOO - VICTIM; LYCOS - VICTIM; COMPUTER INTRUSIONS-CRIMINAL	MATTERS	
based or were una experier	s: Request to open a new 288 n reports that users of popul able to access major search e nced slowness due to the MyDo earch engines with automated	ar internet se ngine websites om virus, whic	arch engines or
	re(s): CNN.com website articease and impact of the MyDoom		
that int (http://Lycos (https://Lycos (

itself.

It is recommended that this matter be opened and assigned to SA[

UNCLASSIFIED

- o http://www.f-secure.com/v-descs/mydoom m.shtml

5. Attachments:

None.

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TECHNOLOGY



TOP STORIES



Google: MyDoom virus caused problems



Dems stress unity in Boston



- Video coach prepares athletes for Athens
- Bloggers get convention credentials
- 'Bin Laden suicide' virus hits Web
- · CNN/Money: Big money behind conventions
- · GOP: Kerry undergoing 'extreme makeover'
- Google blames MyDoom virus

International Edition

Languages 😽

Headline News

Transcripts

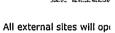
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1A Envelope

Case ID: 288A-SF-136551-1A

case	ID. 200A-BF-136331-IA	
! SF	1 ! ORIGINAL NOTES RE INTERVIEW OF LYCOS	!
! SF !	2 ! ORIGINAL NOTES RE INTERVIEW OF GOOGLE LEGAL ! COUNSEL	!
! SF	3 ! ORIGINAL NOTES RE INTERVIEW OF MCAFEE	!
! SF	4 ! STAS TECHNICAL LEAD ANALYSIS	!
!	!	!
!	! ALL INFORMATION CONTAINED	!
!	! HEREIN IS UNCLASSIFIED	!
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FD-340a (Rev. 1-27-03)

	(Title)		
(File No.)	288 A	-SF-	136551

Item	Date Filed	To be re	No No	Disposition
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	····			

1

FD-340 (Rev. 4-11-03)
File Number 288A-57-136551
Field Office Acquiring Evidence
Serial # of Originating Document
Date Received 3/14/05
From STAS, F.B.I.H.Q. (Name of Contributor/Interviewee)
(Address)
(City and State)
By $\leq A$
To Be Returned Yes No
Receipt Given Yes No Grand Jury Material - Disseminate Only Pursuant to Rule 6 (e) Federal Rules of Criminal Procedure
☐ Yes ☐ No Federal Taxpayer Information (FTI) ☐ Yes ☐ No
Title: My Doom
Reference:
(Communication Enclosing Material)
Description: Original notes re interview of
STAS Technical Great Analysis. o. 6. My Doom Virus.
**
4 %

288A-SF-136551-14(4)

RIC'D AT CLOSED FILES



FEDERAL BUREAU OF INVESTIGATION

Attn: Computer Investigations Unit, Room 11887 Computer Investigations and Infrastructure Threat Assessment Center (CID/NSD) From: SAC, San Francisco Approved By: Drafted By: Case ID #: 288A-SF- 136551 - C2 Title: Subject: UNSUB(S), A.K.A. MyDoom Virus; Victim: Google, Yahoo, Lycros, Altavista Type: Computer Thtrusion Date: 07/26/2004 SUBMISSION: Dinitial Supplemental Closed CASE OPENED: O7 / 26 / 2004 CASE CLOSED: No action due to state/local prosecution (Name/Number: USA declination Referred to Another Federal Agency (Name/Number: Drafted By: WICTIM Company name/Government agency: Google, Mt. View, CA; Yahoo, Santa Clara, CA Address/location: Altavista, Palo Alto, CA; Lycos, Waltham, Micelegical Contents of the Micelegical Contents of the Case Clara, CA Address/location: Attn: Computer Investigations and Infrastructure Threat Assessment Center (CID/NSD) Alt View, CA; Yahoo, Santa Clara, CA Address/location: Attn: Computer Investigations and Infrastructure Threat Assessment Center (CID/NSD) Alt View, CA; Yahoo, Santa Clara, CA Address/location: Attn: Computer Investigations and Infrastructure Threat Assessment Center (CID/NSD) Alt View, CA; Yahoo, Santa Clara, CA Address/location: Attn: Computer Investigations and Infrastructure Threat Assessment Center (CID/NSD) Alt View, CA; Yahoo, Santa Clara, CA Address/location: Attn: Computer Investigations and Infrastructure Threat Assessment Center (CID/NSD) Alt View, CA; Yahoo, Santa Clara, CA Address/location:	Precedence: Routine			Date:	07/29/2004
Approved By: A	To: Director, FBI	-	Attn:	Compu Threat	ter Investigations and Infrastructure Assessment Center
Approved By: A	From: SAC, San Francisc	0			
Drafted By: Case ID #: 288A-SF- 136551 - Q3 Title: Subject: UNSUB(S), A.K.A. MyDoom Virus; Victim: Gaogle, Yahoo, Lycros, Altavista Type: Computer Intrusion. Date: 07/26/2004 SUBMISSION: Initial Supplemental Closed CASE OPENED: 07 / 26 / 2004 CASE CLOSED: / / No action due to state/local prosecution (Name/Number:) No action due to state/local prosecution (Name/Number:) Placed in unaddressed work Closed administratively Conviction COORDINATION: FBI Field Office Government Agency Private Corporation VICTIM Company name/Government agency: Google, Mt. View, CA; Yahoo, Santa Clara, CA		٥.	AI	L INFOR	MATION CONTAINED
Case ID #: 288 A-SF- 136551 - O3 Title: Subject: UNSUB(S), A.K.A. MyDoom Virus; Victim: Google, Yahoo, Lycros, Altavista Type: Computer Intrusion. Date: 07/26/2004 SUBMISSION: Initial Supplemental Closed CASE OPENED: 07 / 26 / 2004 CASE CLOSED: / / / ON action due to state/local prosecution (Name/Number: ON A declination Referred to Another Federal Agency (Name/Number: On Placed in unaddressed work Closed administratively Conviction COORDINATION: FBI Field Office Government Agency Private Corporation VICTIM Company name/Government agency: Google, Mt. View, CA; Yahoo, Santa Clara, CA	Approved By:				
Title: Subject: UNSUB(S), A.K.A. MyDoom Virus; Victim: Google, Yahoo, Lycros, Altavista Type: Computer Intrusion. Date: 07/26/2004 SUBMISSION: Initial Supplemental Closed CASE OPENED: 07 / 26 / 2004 CASE CLOSED: / /	Drafted By:		2.		0 2007 21 00022,007222,120,220
Victim: Google, Yahoo, Lycros, Altavista Type: Computer Intrusion Date: 07/26/2004 SUBMISSION: Initial Supplemental Closed CASE OPENED: 07 / 26 / 2004 CASE CLOSED: / / No action due to state/local prosecution (Name/Number:	Case ID #: 288A-SF- 136	551 - 0 3			
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Company name/Government agency: Google, Mt. View, CA; Yahoo, Santa Clara, CA					
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the state of the s	Company name/Government agency	Google, Mt.	View,	CA;	Yahoo, Santa Clara, CA
•			•		-
				-	-
	Highest classification of information s	tored in system:	Unk	nown	

To: Director, FBI SAC, San Francisco Re: 28%—SF-136551, Date 07/29/2004

System Data:	
Hardware/configuration (CPU): Operating System: Software:	Unknown
Security Features:	TT law and
Security Software Installed:	\square yes (identify
Logon Warning Banner: D y	ves 🗆 no
INTRU	ISION INFORMATION
If Internet: Internet address: _	onnection
Method: Technique(s) used in intrusion:	DDOS (list provided)
Path of intrusion: addresses: 1. Distribut country: 1. 2. facility: 1. 2.	3 4 5 3 4 5 3 4 5
Subject: Unknown	
Sex:	Race:Education:
Group Affiliation:	Motive:
Equipment used:	
	ation (CPU):
Impact:	
Compromise of classified inform Estimated number of computers Estimated dollar loss to date:	TI-l-n-n-n

To: Director, FBI SAC, San Francisco Re: 288-A-SF-13655 Date 07/29/2004

Category of Crime:	
Impairment:	Theft of Information:
☐ Malicious code inserted ☐ Denial of service	☐ Classified information compromised ☐ Unclassified information compromised
☐ Destruction of information/software	☐ Passwords obtained
☐ Modification of information/software	☐ Computer obtained
	☐ Telephone services obtained
	☐ Application software obtained
	☐ Operating software obtained
Intrusion:	
☐ Unauthorized access	
☐ Exceeding authorized access	

REMARKS

On 07/26/2004, popular internet search engines were unable to provide search results to a number of web surfers due to a new variant of the MyDoom virus.

The virus uses search engines to look for more e-mail addresses in order to keep replicating itself.

Menu Technology(s) Used:

Proto	Top Screen Protocol Attacks:			dary Screen
-	X ·	IP	<u> </u>	spoofing attack source routing
	X	TCP		sequence number attack
		UDP		spoofing attack flooding
		FTP		vulnerable version SITE EXEC overload FTP buffer anonymous FTP
		Telnet		highjacking packet sniffing
		TFTP		
		r commands		rsh rlogin
		SMTP		vulnerable version spoofing embedded postscript attack trojan horse attack syslog attack flooding MIME
		HTTP		flooding Telnet to HTTP port
		gopher		5
		X11 window		Page 4

Top S	creen	Secon	dary Screen
	DNS		vulnerable version flooding
	SNMP		
	FSP		
	NFS		
Other	Attacks:		
XX	Worm		
	Social engineering		
	Scavenging and reusing		
	Masquerading		
	Scanning		
	Trojan Horse		

Other



U.S. Department of Justice

Federal Bureau of Investigation

In Reply, Please Refer to	
File No. 288A-SF-	136551-4

450 Golden Gate Ave. PO Box 36015 San Francisco, CA 94102 (415)553-7400 July 28, 2004

	(415)553-7400 July 28, 2004
Attention: Lycos Legal Departmen	t
Dear	
If you have any further information, please contact Speci	questions, or additional al Agent .
	Sincerely,
ALL INFORMATION CONTAINED HEREIN IS UNCLASSIFIED	Mark J. Mershon Special Agent in Charge
DATE 07-06-2009 BY 60322/UC/LRP/PLJ/sdb	Ву:
	Supervisory Special Agent

HP OfficeJet K Series K80xi Personal Printer/Fax/Copier/Scanner Log for HT Internet Jul 28 2004 3:42pm

b6 b7C

Last Transaction

<u>Date Time Type Identification</u> <u>Duration Pages Result</u>

Jul 28 3:42pm Fax Sent 0:22 1 OK

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- 1 -

FEDERAL BUREAU OF INVESTIGATION

		Date of transcription	08/16/2004
: :	On August 11, 2004, n Mountain View, California, telephone nterviewed telephonically and advised on terviewing agent and the nature of the he following information:	Legal Couns number 650/623 of the identity	el at Google, -6048, was
t ā	GOOGLE is not currently experi YDOOM virus that initially struck on Ju hat representatives from GOOGLE are wor nalysis of the financial loss suffered irus believes it will be approxi	aly 26, 2004. king on prepar by GOOGLE due	advised and to the MYDOOM
<u>Л</u> 7	advised that she has the en hosts that queried the GOOGLE search YDOOM attack and said that she would se ia email. The resulting email is attachis FD-302.	n engine relate and the informa	d to the tion to me
	•		
Investiga	on on 08/11/2004 at Quantico, Virginia	ı (tele	phonically)
File # 2	88A-SF-136551 <i>-5</i>	Date dictated 08/16/	/2004
hv S			

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288A-SF-1365513

231 WL12.302, WAD

FD-302 (Rev. 10-6-95)

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FEDERAL BUREAU OF INVESTIGATION

Date of transcription 07/27/2004
On July 27, 2004, LYCOS in San Francisco, California, telephone number (650)428-5000, was interviewed telephonically and advised of the identity of the interviewing agents and the nature of the interview. provided the following information:
Between 8:30AM and 9:00AM Eastern Daylight Time (EDT) on 07/26/2004, the servers at Lycos were impacted by the MYDOOM virus. Between 9:00AM and 10:00AM eastern, legitimate web users' availability to search results conducted by LYCOS was at 37%. By 11:00AM eastern, availability was less than 4%.
By 7:30PM eastern, LYCOS had implemented filters on searches coming into the servers on certain text strings like "mail", "reply", "rcpt", and "contact" that they noted were being queried by the virus. By applying these filters, they were able to block the searches committed by the virus and allow regular users to access the search functions of LYCOS. LYCOS could not simply block an Internet Protocol (IP) address or range of IP addresses because of the distributed nature of the virus.
noted that traffic to the LYCOS website was at approximately 50 times normal levels on 07/26/2004 and continues to fluctuate between 30 and 50 times normal levels on 07/27/2004, but that, due to the filters implemented by LYCOS, their search functions are running normally for most users.
Investigation on 07/27/2004 at San Jose, California (telephonically)
File # 288A-SF-136551-6 Date dictated 07/27/2004
by SA :W1 202

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73/WLOG. 302. Upd 288A·SF-136551-6

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FEDERAL BUREAU OF INVESTIGATION

- 1 -

_		
• Date	of transcription	07/27/2004
On July 27, 2004, and number (503)466-4484, were interviewed telepho of the identity of the interviewing agents and interview. and provided the information:	nically the nat	ure of the
The 15th variant of the MYDOOM virus MCAFEE on July 26, 2004 at approximately 6:30A virus affected major search engines while tryi additional email addresses to send itself to, corporate customers whose mail servers were to overwhelmed.	M pacifi .ng to se as well	c time. The arch for as several
The virus harvests email addresses for computer, then searches the domain name of the through the major internet search engines, in additional email addresses. While the search with searches, and believe the primary target.	e email a an attem engines	ddresses pt to locate were flooded
The virus also installs a backdoor of future users and/or viruses can exploit. MCAF viruses discovered on July 27, 2004 that exploit does not think they were necessarily writt as the MYDOOM virus.	FEE has a oit this	lready seen open port,
and noted that the or identifying about the virus executable. The source code of the virus.	ere was n ney do no	othing unique t have the
Investigation on 07/27/2004 at San Jose, California	(tele	phonically)
File # 288A-SF-136551 - 7 Date dicta	oted 07/27	/2004
by SA		

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188A-SF- 136551-7

FEDERAL BUREAU OF INVESTIGATION

Preceden	ce:	ROUTINE	· Date:	12/17/2004
To: San	Fran	cisco		
From: Sa	Squ	ancisco ad 14G-Cybersquad, San Jose b tact: SA	Resident	Agency
Approved	By:			
Drafted By: wl 72				
Case ID	#: 28	8A-SF-136551-8 (Pending)		
	aka M GOOGL YAHOO LYCOS	(S) YDOOM VIRUS; E - VICTIM; - VICTIM; - VICTIM; TER INTRUSIONS-CRIMINAL MATT	ERS	•
Synopsis	: Re	quest to close captioned mat	ter.	

Details: At 11:30AM Eastern time on 07/26/2004, internet search engines Google (http://google.com), Yahoo (http://yahoo.com), and Lycos (http://lycos.com) were unable to provide search results to a number of users for several hours due to a variant of the MyDoom virus (Mydoom.m) and Zindos worm.

On 07/28/2004, Special Technologies and Applications Section (STAS) assistance was requested in analyzing the source code of Mydoom.m and Zindos.

On 12/14/2004, STAS advised that the analysis of Mydoom.m and Zindos was complete. Strings and source code of the virus/worm were examined for clues as to the identity of the author, but none were found.

Determination of the original author is therefore deemed impossible and the case is being closed.

•	•
	SF Field Intelligence Group
	Potential Intel Value: Yes 🖂 No 🔯
	Reviewed By: M Date: 12/17/04
,	S-Drive Location:

Close Closed on
03/21/05

MA
12/17/04
St

288A-SF-136551 - 09 WL:wl ====

<u>1</u>

	The foll	lowing in	vestigatio	n was	conducted	by	Special
Agent			_			-	
						- .	
					gent		
from STAS	the Tech	nnical Lea	ad Report	on the	e Analysis	of	Mydoom-
M/Zindos 1	Worms. 1	The report	t found no	clue	s as to the	e id	lentity
of the au	thor of e	either cor	nputer wor	m. Tl	ne report	is a	ittached
to and made	de a part	of this	document.				

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FEDERAL BUREAU OF INVESTIGATION CYBERDIVISION SPECIAL TECHNOLOGIES AND APPLICATIONS SECTION TECHNICAL ANALYSIS UNIT TECHNICAL LEAD REPORT

FOR LEAD PURPOSES ONLY

To:	Date: 11/22/04
DISTRIBUTION TO: XXX	
Submitter's Case Number: 288A-SF-136551	
RE: ANALYSIS OF MYDOOM-M/ZINDOS WORMS	
Title: Anaysis of Mydoom-m/zindos worms	
Electronic Location: \\smb00\cases\ProductRep	ports\2004_Reports\STAS-
Prepared By:	PHONE NUMBER:
APPROVED: XXX	PHONE NUMBER: XXX
STAS CONTROL FILE: 288A-SF-136551	PRIMARY REPORT ID: STAS04-XXX
	MATS ID: 2004-XXX

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1. Media Type and Quantity: 1 CD w/zip file containing Mydoom-m worm

2. Analysis Requested:

- Assist in analysis of Mydoom-M Virus
- Obtain a copy of zindos worm and analyze

3. Executive Summary:

A copy of the Zindos worm was obtained. Both Zindos and Mydoom-m (provided) were analyzed using IDA Pro (static disassembly of binary). Strings and code were examined for clues as to the identity of the author, but none were found.

4. Details of Analysis:

Zindos worm

- A copy of the zindos worm was obtained from a 3ed party source.
- It was loaded into IDA Pro for disassembly and analysis
- Disassembly revealed that zindos goes into a tight loop (every 50ms) trying to connect to www.microsoft.com
- The code was examined looking for identifying information such as names, email addresses, comments or IP addresses that might help identify the author. None were found.

Mydoom-m worm

- The worm was run in isolation and network traffic was recorded. Without being able to reach the Internet, the worm performs lookups for the mail server (MX) for the following domains:
 - 13 cvs.tartarus.org: type MX, class inet
 - 13 gto.net.om: type MX, class inet
 - 13 kohls.com: type MX, class inet
 - 14 lebanon-online.com.lb: type MX, class inet
 - 14 msdirectservices.com: type MX, class inet
 - 17 petri.co.il: type MX, class inet
 - 14 target.com: type MX, class inet
 - 14 tucows.com: type MX, class inet
 - 13 ultraschallpiloten.com: type MX, class inet

(the number in front is a count of the occurrences during the test run).

[Analyst Comment on above list: It is likely that this is a list of known "open relays" at the time the worm was released. The intent is likely to use them to send the initial round of messages.]

- Mydoom-m was loaded into IDA Pro for disassembly and static analysis. A cursory analysis of the code was consistent with analysis provided by commercial anti-virus vendors and security organizations at
 - o http://www.trendmicro.com/vinfo/virusencyclo/default5.asp?VName=WORM MYDOOM.M

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TECHNOLOGY

Google says MyDoom virus caused problems

Monday, July 26, 2004 Posted: 4:21 PM EDT (2021 GMT)

(CNN) -- The No. 1 Internet search engine on Monday was unable to provide search results to a number of Web surfers, probably because of a variant of the MvDoom virus.

Users of other popular search engines such as Yahoo and Lycos may also have experienced some

Google released a statement to CNN at 3 p.m. ET saying the site "experienced slowness for a short period of time early today because of the MyDoom virus, which flooded major search engines with automated searches.

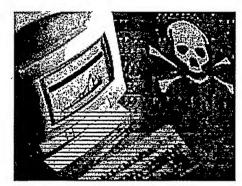
"A small percentage of our users and networks that have the MyDoom virus have been affected for a longer period of time. At no point was the Google Web site significantly impaired, and service for all users and networks is expected to be restored

According to several media accounts, the problem began about 11:30 a.m. ET, and by 3 p.m. the site seemed to be running smoothly again.

The SANS Institute and other security firms issued a release shortly after the problem was detected saying a new variant of the MyDoom virus could be to blame. The latest incarnation of the troublesome virus uses search engines on infected computers to look for more e-mail addresses in order to keep replicating itself.

Experts contacted by CNN were unable to determine the exact magnitude of the problem.

Some users across the United States reported no trouble with Google or other search engines.



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CNN/Money: Google IPO worth up to \$3.3B

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For other people, although the main Google page was able to load, they reported seeing a "server error" message when trying to conduct a search.

Google also announced details of its initial public offering Monday, with share prices of between \$108 and \$135. Experts consider those figures to be very high, leading some observers to initially speculate that Google was the victim of a vindictive hacker attack.

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